

20<sup>th</sup> January 2014

## News

### P&P Sub-Alliance Achievement Awards

For the first time since its formation in 2008, the P&P Sub-Alliance is pleased to announce not one but two recipients of its prestigious Achievement Awards. On Monday 13<sup>th</sup> Jan, the Sub-Alliance Steering Group (SASG) presented certificates to Ben Salter and Tom Buchanan in recognition of 'Service Excellence and Demonstration of Outstanding Alliance Behaviours'. Ben Salter not only represented GE for many years on the Sub-Alliance Management Team but was also the P&P functional integration lead and author of the Operational Philosophy document, recognised as the P&P Bible. Tom Buchanan (BMT), IPMS MCAS integration engineer, has spent several years successfully defining the functional basis of the system and all its interfaces to over 40 systems with which IPMS interacts.



### Copyright Statement Update

Please be aware that the copyright statement for all ACA Documentation has been updated. The new copyright statement must be used for all documents created or updated from the 1<sup>st</sup> January 2014, and forward should be used in accordance with paragraph 3.13, Schedule 8 of the Manufacturing Alliance Agreement (CVF-10251438). For example, for ACA Documentation produced from 1<sup>st</sup> January 2014, the copyright statement should read.

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The document templates held in Windchill are being updated to reflect this change. Please delete any draft copies you may have saved and replace with the new templates.

## Spotlight on... Schedule Improvement Assessment



### ACA Schedule Improvement Assessment Launched

The achievements made so far on the QEC programme are impressive and everyone should be justifiably proud of the progress made to date. As the programme progresses we need to build on this success and continue to improve the way we work to realise benefits for both the programme and our team. Many useful ideas, comments and concerns have already been collected through reviews like the weekly 'Open Sessions' with directors and to ensure that we deliver all of these improvements we need to ensure we address them in a prioritised order that allows us to have the greatest positive impact on the build schedules for both ships and ultimately delivery of the overall programme.

### **Identifying Opportunities**

To help achieve this we have started an assessment to identify and prioritise opportunities to improve ways of working and to develop plans to make these happen. This short assessment is being delivered by a team from Newton alongside the Alliance improvement and management teams. Newton have a strong track record of identifying and successfully implementing improvements on complex engineering programmes and will be working alongside ACA teams to understand in detail what prevents us from starting and completing work both on and off ship. You may come across members of the team as they carry out studies and collect information. Please support their efforts and be open when sharing your experiences and suggestions as the team are here to help us.

## Get Involved

The output from this assessment will be a plan for improvement over the remainder of the programme, encompassing and building on the improvement work already underway. It will be vital that people across all levels of the organisation assist in the delivery of this and we look forward to input from across the alliance whether it be proposing improvement ideas, raising concerns, assisting in the development of the improvement plans or delivering a project to make part of the programme better, however large or small.

## Keeping You Up to Date

As the Schedule Improvement Assessment progresses we will use this newsletter, as well as other communication channels, to provide updates and share plans for the implementation of changes. The Newton team is being led by Fraser Gillies and if you have any questions about the assessment or the longer term vision, please feel free to come and meet him, or the team, in the Trafalgar Conference Room in 392 South (pictured top of first page).

## Power & Propulsion Software Cost Account Manager Announcement

THALES is pleased to announce the appointment of Graham Thomson as the new Power & Propulsion (P&P) Software Cost Account Manager (CAM), covering primarily Integrated Platform Management System & Electrical Power Control And Management Systems. Graham is familiar to many on the project following his most recent role as Thales Re-baselining Bid Manager. Jim Bennett, Power and Propulsion Director said, "Graham comes with extensive programme management experience including software related projects and we welcome the additional strengths this will bring to the team. Graham formally starts in role on 3<sup>rd</sup> March but is already engaged where time permits in his existing role. P&P would like to welcome Graham and wish him all the best in his new role."

# HMS Queen Elizabeth Rosyth

## HMS Queen Elizabeth LB04:

- The third of five planned Block Completion Status Report audits has been carried out by DQAFF (Defence Quality Assurance Field Force). The audit was carried out on ring Q with the aim of satisfying the ACA build assurance team that the reported status on the ring is correct and verifiable.
- Initial feedback has been positive and any outstanding actions will be addressed following issue of the formal audit report next week.
- The inspection programme has continued with the focus remaining on 4 deck, with nine compartments have been completed last week on 4 deck. This means all compartments in ring R, S and P on 4 deck have now been achieved.
- In support of the compartment inspection process all trades have been working through the necessary pre-requisite activities. It is anticipated that four insulation Inspection Testing Requirements (ITRs) and one paint ITR would have been achieved by the end of last week.
- The passageway in 6P and the heads general purpose compartment in 5N are going through their behind lining inspections. The electrical team are expected to meet their target of 3000m of cable with the pipe testers forecasting circa 150 pipe spools will be tested.
- Finally, the Installation Audit programme is continuing to run ahead of schedule with 159 test paths now complete and handed over to the commissioning team.

## Tanks

- All inserts on LB02 have been successfully installed and signed off by Lloyds, allowing the blast programme to progress on Block 02 outer shell.
- Compartments 0FY0 and 0FX6 (AVCAT Tanks) are now successfully signed off.
- ITR 12 Paint inspections were carried out by Quality Control on 9HA0 (Fresh Water Tank) and 0QA2 (Sea Chest).
- Design Intent Reviews continue to progress well with 152 of 173 compartments fully achieving DISR status. Including Tanks, Voids, Cofferdams and Pipe Tunnels.

### **Shaft Programme**

- This week saw the Port Side Tunnel Bearing support steelwork fully welded and the bearing liner fitted.
- The main 'A' Frame Bracket faces on the Port Side are now fully drilled and tapped, ready to take the rope guard studs.
- The main starboard 'A' Frame Bracket has also been made ready for the rope guard studs to be fitted.
- The Epocast operation has now been completed on both the Starboard Tunnel Bearing and the Main 'A' Bracket, whilst the Intermediate Bracket has now been machined and drilled.
- Dimensions for the Starboard Intermediate Bearing Liner have also been lifted and commencement of machining has been authorised.

### **Hull Programme**

- Progress on the Hull programme continues to move forward with the outer shell on Block 02 being prepared to be shot-blasted from the outer bottom to the Boot top.
- Blasting activities will commence early next week.

### **Damage Control Zone 3**

- Replacement carlings in CB03 2deck are now complete.
- DISR of the CW system (3 deck and below) is now completed.
- Ways ahead on fitting of the forward aircraft lift has been agreed and a lift date targeted for February 14.
- Link up area between blocks 2 and 3 continues to be a major focus both mechanically and electrically in order to free up Inter block cabling and pipework and is scheduled to complete in mid-January.
- Two EDR's have been handed over to Commissioning for power up to commence.

### **Damage Control Zone 5**

- SP012 Aft and Port Sponson have been erected.
- The daily plan room with visualisation for DCZ-5 has now established

## **HMS Prince of Wales Tyne**

### **HMS Prince of Wales CB03:**

- Ring H and J join up is now painted and the insulation is being applied in the Hangar and 2 deck compartments.
- Outfit install continues in ring H and J compartments.
- Ring K has been structurally joined ready for the move down the West Quay (ring K pictured below).
- Painting is progressing in ring LK in the paint cell with spraying being undertaken.
- All of the 2 deck Ring L units have now been lifted, turned and are being joined. The flight unit's bulkheads are now being welded out.



## **Merseyside**

### **HMS Prince of Wales CB02:**

- The first bulkheads were erected on CB02 F C214.
- Hot work zone 3g is now painted.
- Starboard side of Ring G 4 deck now being P01'd and Painted.
- C238 G ring structural dry survey lift turn and erect over the weekend.
- The load testing of eye plates has commenced on G ring.



## Portsmouth

### HMS Prince of Wales CB02:

- HB Hydraulics have made good progress and are ahead of recovery plan - installing 77 pipe spools on ring A.
- Final Po2 inspections have taken place and as a result are on target to commence painting on ring A (2 Deck) this week.
- Painting on ring B (4 Deck) continues to progress well with completion scheduled for last week (Friday 17<sup>th</sup>).
- Following preparation last week, Unit C225 has been lifted into place on ring C and consolidation is progressing well.
- Unit C223 moved around from Hall A to Hall B ready for erection and consolidation onto ring C this week.

### HMS Prince of Wales LB02:

- The X-Rays carried out last week on the structure were a success, with more to follow this Friday to complete the final scope.
- Tank testing has continued with positive results , a continued programme to maintain has been set up.
- The works to fit the transport arrangements onto the outer Hull have started with cruciforms going into place; once scaffold is removed on Aft end of G ring, the Pilot Platform will be positioned.
- SSSL are due to start shot blasting Sea Chest and associated sea tunes on G Ring Starboard, and once complete the Hull Guides will start to be positioned.
- Inside the Block BLI inspections are being completed on F ring for cabins to go back into final positions, and installation which will then lead into the compartment handover inspection programme.
- Pipe testing is steadily progressing and cable reeve is now at 107km.

## Govan

### HMS Prince of Wales LB03:

- Compartment Hand-Over Inspection (CHOI) programme remains the main focus with 12 achieved in week 1402 and a further 10 expected to be achieved last week.
- This takes to total achieved to 420 out of 520 CHOs to date which is 81% complete.
- Ticon are continuing to focus heavily on the progression of ceilings and linings, particularly within the cabin flats on 6 and 7 deck and the dining halls, galley and bakery on 5 deck, which allows electrical work such as smoke detectors, sockets and lighting to progress.

- Imtech are progressing well, fitting 71m of vent in week 1402 while working in all available ATU compartments and completing vent installations in complex areas such as the Galley and bakery.
- Pipe work continues to progress well with 9853 total spools fitted.
- There were 231 mechanical audits and 167 pressure tests signed off in week 1402.
- LB03 electrical scope continues to progress well with cable installed now at 100% completed of the baseline scope.
- 502 terminations were also completed in week 1402 taking the terminations to 83% complete and 690 cable cores check wired which is 63% complete.

### HMS Prince of Wales LB04:

- To date there are 142 (90%) units in preparation with 123 (78%) having progressed into the fabrication stages and 99 (63%) have been successfully delivered into the SBOH.
- This week saw the successful unit assembly of three units (LN11, LM28 & LP15) and a further two dry surveys were achieved on the block.
- After months of planning and preparation, this week saw the start of the cabin deliveries and installations on LB04. The first of the cabin flats had 24 cabins successfully delivered and fitted into position exactly as planned. The cabins were delivered to a high standard and the lifting operations and installation ran smoothly.
- A successful care and protection audit took place last week on the block, with approximately 40 compartments being inspected with excellent feedback being received from the ACA/Client representative on the high standards of equipment protection and cleanliness being presented.
- Last week there was a review to ensure the team are prepared for the cable pulling start on LB04. A number of minor actions have been raised, however in terms of Engineering Outputs, material availability and available work faces, the block is in a very good position for starting this key activity in the next few weeks.
- Pipe installation continues to progress well, over 800 pipes ahead of the plan with 6112 fitted compared to 5272 planned. This has allowed both the mechanical inspections and pipe testing to progress ahead of the plan.